SAFETY DATA SHEET

LYSOL® Clean & Fresh Multi-Surface Cleaner -Sparkling Lemon & Sunflower Essence



SS939

1. Product and company identification

Product name	: LYSOL® Clean & Fresh Multi-Surface Cleaner - Sparkling Lemon & Sunflower Essence
Distributed by	: Reckitt Benckiser LLC. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 +1 973 404 2600
	Reckitt Benckiser (Canada) Inc. 1680 Tech Avenue, Unit #2 Mississauga, Ontario L4W 5S9 CANADA Telephone: +1 905 283 7000
Emergency telephone number (Medical)	: 1-800-338-6167
Emergency telephone number (Transport)	: 1-800-424-9300 (U.S. & Canada) CHEMTREC Outside U.S. and Canada (North America), call Chemtrec:703-527-3887
Website:	: http://www.rbnainfo.com

- Product use
- : Multipurpose Cleaner Consumer use

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS #	:	D8216064 v6.0
Formulation #	:	8259408 v1.0
EPA ID No.	:	777-89
DIN #	:	02245935

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
Consumer use	

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2. Hazards identification

Classification of the substance or mixture

: EYE IRRITATION - Category 2A

GHS	lahel	elements	
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Hazard pictograms



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Signal word	Varning	
Hazard statements	Causes serious eye irritation.	
Precautionary statements		
General	Read label before use. Keep out of reach of children. If medical advice is needed ave product container or label at hand.	,
Prevention	Vear eye or face protection. Wash hands thoroughly after handling.	
Response	F IN EYES: Rinse cautiously with water for several minutes. Remove contact ler resent and easy to do. Continue rinsing. If eye irritation persists: Get medical att	
Storage	lot applicable.	
Disposal	lot applicable.	
Supplemental label elements	lone known.	
Hazards not otherwise classified	lone known.	

3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
· · · · · · · · · · · · · · · · · · ·	≥1 - ≤5 ≥1 - ≤5	68551-12-2 68424-85-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessa	ary first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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4. First aid measures

Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
Specific hazards arising from the chemical	: No specific fire or explosion hazard.	
Hazardous thermal decomposition products	: No specific data.	
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5. Fire-fighting measures

Special protective actions for fire-fighters		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

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Precautions for safe handling	9						
Protective measures	:	contact with e container or a	yes n aj not i	, skin and clothing. pproved alternative n use. Empty cont	Avoid breathing with made from a com	apor or mist.	o not ingest. Avoid Keep in the original al, kept tightly I can be hazardous.
Conditions for safe storage, including any incompatibilities	:	direct sunlight (see Section 7 ready for use. upright to pre- containment to	t in a 10) a Co vent o av	nce with local regula a dry, cool and well and food and drink. ontainers that have t leakage. Do not s void environmental handling or use.	-ventilated area, a Keep container t been opened mus tore in unlabeled o	way from incor ightly closed and the carefully r containers. Us	npatible materials nd sealed until esealed and kept e appropriate
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8. Exposure controls/personal protection

Control

Occupational exposure limits

Not applicable.		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection meas	9 <u>8</u>	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	y
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.	
Skin protection		
Hand protection	: Considering the parameters specified by the glove manufacturer, check during use th the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protect time of the gloves cannot be accurately estimated.	е
Body protection	: Personal protective equipment for the body should be selected based on the task beir performed and the risks involved and should be approved by a specialist before handling this product.	١g
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this product.	
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.	

9. Physical and chemical properties

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<u>Appearance</u>				
Physical state	: Liquid. [Transparent]			
Color	: Greenish yellow & fluorescent			
Odor	: Lemon-like.			
Odor threshold	: Not available.			
рН	: 8.5 to 9.5 [Conc. (% w/w): 100%]			
Melting point	: Not available.			
Boiling point	: Not available.			
Flash point	: Closed cup: >93.3°C (>199.9°F)			
Evaporation rate	: Not available.			
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9. Physical and chemical properties

Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1.002 to 1.012
Solubility	:	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.

Aerosol product

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C12-16, ethoxylated	LD50 Oral	Rat	500 to 2000 mg/ kg	-
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	LD50 Dermal	Rabbit	2848 mg/kg	-
	LD50 Dermal	Rabbit	3413 mg/kg	-
	LD50 Oral	Rat	344 mg/kg	-
	LD50 Oral	Rat	398 mg/kg	-
LYSOL, MPC LEMON SUNFLOWER_8259408_D8216064 (NA)	LC50 Inhalation Vapor	Rat	>2.2 mg/l	14 days

Conclusion/Summary : Not classified. Harmful *Information is based on toxicity test result of a similar product.

Irritation/Corrosion

11. Toxicological information

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C12-16, ethoxylated	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	Skin - Severe irritant	Rabbit	-	25 milligrams	-
LYSOL, MPC LEMON SUNFLOWER_8259408_D8216064 (NA)	Eyes - Moderate irritant	Rabbit	-	-	7 days
	Skin - Primary dermal irritation index (PDII)	Rat	0.8	-	-

Conclusion/Summary

Skin	Slightly irritating to the skin. *Information is based on toxicity test result of a product.	ı similar
Eyes	Moderately irritating to eyes. *Information is based on toxicity test result of product.	a similar

Respiratory : Based on available data, the classification criteria are not met.

Sensitization

···· · · · · · · · · · · · · · · · · ·	Route of exposure	Species	Result
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	skin	Guinea pig	Not sensitizing
LYSOL, MPC LEMON SUNFLOWER_8259408_D8216064 (NA)	skin	Guinea pig	Not sensitizing

: Based on available data, the classification criteria are not met.

Conclusion/Summary

Skin

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- : Non-sensitizer to skin. *Information is based on toxicity test result of a similar product.
- Respiratory

Mutagenicity

Product/ingredient name	Test	Experiment	Result
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	OECD 471 - Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473 - Mammalian Chromosamal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476 - Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
Conclusion/Summary	Based on available data	, the classification criteria are not met.	·
Carcinogenicity			
Not available.			

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity Not available.

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: Based on available data, the classification criteria are not met.

11. Toxicological information

Not available.

Conclusion/Summary	11	Based on available data	, the c	classification	criteria are not met.
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Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely	1	Not available.
routes of exposure		
Potential acute health effects		

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Based on available data, the classification criteria are not met.
General	1	No known significant effects or critical hazards.
Carcinogenicity	1	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.

11. Toxicological information

- **Developmental effects** : No known significant effects or critical hazards.
- Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Alcohols, C12-16, ethoxylated quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	500 344	N/A 2848	N/A N/A	N/A N/A	N/A N/A

12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	Acute EC50 0.016 mg/l	Daphnia	48 hours
	Acute LC50 64 ppb Fresh water Chronic EC10 0.009 mg/l	Fish - Oncorhynchus mykiss Algae	96 hours 72 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	-	-	Readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc) : Not available.

Other adverse effects : No known significant effects or critical hazards.

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13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	TDG Classification	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Environmental hazards	No.	No.	No.	No.

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

15. Regulatory information

 U.S. Federal regulations
 : TSCA 4(a) proposed test rules: Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides

 TSCA 8(a) CDR Exempt/Partial exemption: Not determined

 United States inventory (TSCA 8b): All components are listed or exempted.

 Clean Air Act Section 112
 : Not listed

 (b) Hazardous Air
 : Not listed

Pollutants (HAPs)

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15. Regulatory information

Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
SARA 302/304	

Composition/information on ingredients

No products were found.

SARA 304 RQ	: Not applicable.
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SARA 311/312 Classification

: EYE IRRITATION - Category 2A

Composition/information on ingredients

Name	%	Classification
Alcohols, C12-16, ethoxylated	≥1 - ≤5	ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1
quaternary ammonium compounds, benzyl- C8-18-alkyldimethyl, chlorides	≥1 - ≤5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: ETHYL ALCOHOL; ALCOHOL
Pennsylvania	: The following components are listed: DENATURED ALCOHOL; ETHANOL
<u>California Prop. 65</u>	
This product does	not require a Safe Harbor warning under California Prop. 65.
Label elements	

Euser cicilitetto	
CCCR	
Signal word	: CAUTION
Hazard statements	: MAY IRRITATE EYES
Precautionary measures	: Do not get in eyes.
	Keep out of reach of children. After handling, always wash hands thoroughly with soap and water.
<u>EPA</u>	
Signal word:	: CAUTION
Hazard statements	:
	Causes moderate eye irritation
Special Inert substance.	: None.
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15. Regulatory information

Precautionary measures	: Avoid contact with eyes, skin and clothing.
	Keep out of reach of children.

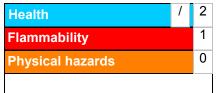
Skin sensitizer	: No known significant effects or critical hazards.	
Additional information / Recommendations		
Additional information	: No known significant effects or critical hazards.	

Recommendations

: No known significant effects or critical hazards.

16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



NFPA (30B) aerosol Flammability No known significant effects or critical hazards.

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
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16. Other information

Date of issue	: 11/6/2019
Date of previous issue	: 23/10/2018
Version	: 6
Prepared by	: Reckitt Benckiser LLC. Product Safety Department 1 Philips Parkway Montvale, New Jersey 07646-1810 USA. FAX: 201-476-7770

Revision comments : Update of SDS.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.